What is claimed is:

- 1. An ionic conductor comprising:
- a porous body which has a plurality of continuous 5 pores passing through said porous body; and

ionizable functional groups attached to surfaces of said continuous pores.

- 2. An ionic conductor according to claim 1, wherein 10 said porous body comprises a porous ceramics.
 - 3. An ionic conductor according to claim 2, wherein said porous ceramics comprises a porous glass, a porous alumina, or a porous mullite.

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4. An ionic conductor according to claim 1, wherein an average diameter of said continuous pores is in the range of 1 nm to 1 µm, and a porosity of said porous body is in the range of 5 to 90 %.

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- 5. An ionic conductor according to claim 1, wherein hydrophobic groups are attached to the surfaces of said continuous pores.
- 25 6. An ionic conductor according to claim 5, wherein said hydrophobic groups are alkyl groups or fluorocarbon functional groups.

- 7. An ionic conductor according to claim 1, wherein said porous body has a plate-like shape, a pipe-like shape, or a honeycomb shape.
- 8. A method of producing an ionic conductor, said method comprising;

preparing a porous body which has a plurality of continuous pores passing through said porous body; and

- attaching ionizable functional groups to active

 10 groups being present on surfaces of said continuous pores by
 a covalent bond or a hydrogen bond.
 - 9. A method of producing an ionic conductor, said method comprising:
- preparing a porous body which has a plurality of continuous pores passing through said porous body;

bonding hydrophobic groups to active groups being present on surfaces of said continuous pores; and

- attaching one of anionic surface active agents,

 20 cationic surface active agents, and amphoteric surface
 active agents, each of which has ionizable functional groups
 and one of alkyl groups and fluorocarbon functional groups,
 to said hydrophobic groups.
- 25 10. An ionic conductive diaphragm comprising an ionic conductor, characterized in that:

said ionic conductor comprises a porous body which has a plurality of continuous pores passing through said

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porous body, and ionizable functional groups attached to surfaces of said continuous pores.

11. An ionics element comprising an ionic conductor, 5 characterized in that:

said ionic conductor comprises a porous body which has a plurality of continuous pores passing through said porous body, and ionizable functional groups attached to surfaces of said continuous pores.

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12. An ionics instrument having an ionic conductor, characterized in that:

said ionic conductor comprises a porous body which has a plurality of continuous pores passing through said porous body, and ionizable functional groups attached to surfaces of said continuous pores.